What StarCore Nuclear IS

Highly Innovative; we use a style of fuel and type of coolant already well proven and recognized as superior, but not used ANYWHERE in the world today except in China's most recent nuclear power plant (just now under construction after extensive testing). The design performs exactly as computer modeling predicts.

Entirely, totally, unequivocally SAFE; our reactor design CANNOT, by the immutable laws of physics, cause a radioactive release to the atmosphere or create fouled groundwater, under any circumstance or disaster scenario. Upon attack from a natural disaster or human terrorists, it simply goes quiescent.

The ultimate 'good neighbor'. The plant will deliver to the local community or customer three items always high on their hierarchy of needs: dependable, clean power, a steady supply of pure, potable water, and a significant bandwidth of internet connectivity, to allow a broad range of healthcare, educational, or cultural accessibility.

A plant design specifically created to be deployed in isolated geographic regions to supply power for remote populations or to industrial developments located far from existing electric grids. We will supply dependable power anywhere on earth, quickly, without enormous financial burden to the customer.

A reactor design to produce almost limitless potable water, from any type of raw H2O feedstock (groundwater, seawater, wastewater, river or baywater, no matter how polluted), creating no noise, no radioactivity, no environmental havoc, no CO2 emissions at all.

Provided to a community or industrial user solely on the basis of a 25-year agreement to purchase our electricity; we pay to design and build the entire power plant, deliver it to the site, install it, commission it, operate it, control and monitor it 24/7/365, then replace or remove it at the end of its useful life, leaving the site exactly as we found it. No need for bond issues, fundraising, or staggering municipal or industrial debt.

A Design using HTGR (High Temperature Gas Reactor) technology, meaning that ours uses NO liquids as coolants; not water or light water, not molten metals nor liquid salts,

not any of the elements or compounds that are extremely caustic, hugely difficult to handle and process and, therefore, excessively prone to mishap or equipment failure.

What StarCore Nuclear IS NOT

Dangerous. Everything we do must meet the very highest standards of 'green', from the fuel we use (and can largely recycle) to the reactor coolant (benign helium) to our building material (ultra-high strength concrete, requiring no rust-prone rebar) to the way we leave a site upon our departure (just as we found it; no groundwater contamination, no animal or plant disruption, no human displacement, never an "environmental cleanup" required.

The Same Old Thing. We don't rely on local human operators; virtually ALL the nuclear mishaps of the 'nuclear age' have been caused by human error, so we took human error out of the equation. We use satellite monitoring from a central control center. Our sites are community friendly, with no barbed wire, no fences, no armed guards with dogs. Ever. Come play on our ball field … bring the kids.

Reliant on "unobtainium" or creation of some new nano-material; everything we've designed, from a new form of uranium-impregnated fuel pellet to the reactor coolant system to the triply-redundant control mechanisms, can be produced TODAY, using known and tested materials, methods and equipment. This is not some futuristic dream… we can deliver it today. Anywhere on the globe.

Planning to use some hyper-caustic molten salt or exotic liquid metal oxide as a coolant; we'll use plentiful and well understood helium, one of nature's most common elements. Helium, by the laws of physics, CANNOT become radioactive, so its accidental (or purposeful) venting has NO effect on the atmosphere. None. Zero. No risk of radioactive groundwater, or radioactive steam being vented.

A reactor design that results in the creation of plutonium. Nothing about StarCore's reactor or plant design has the ability to allow uranium to convert to plutonium, the nasty stuff of bomb making. No proliferation risk, at all.

A creator of more "waste nuclear fuel". We use Pebble Bed Technology (PBR), so at the end of our reactor's (nominal) 5-year life, we insert a new reactor vessel, then remove the old one from the site and return it to our plant for recycling and refueling. No waste fuel left on site, no adding to the world's spent fuel stockpile.

Noisy or unsightly. Our plant design, created by the internationally award-winning team at Cooper Gardner Architects of Bermuda, is the ultimate ‘good neighbor’. Beautiful, low-lying and in sync with its surroundings, with no huge cooling tower, no steam relentlessly rising, no noise, no barbed wire or guards, no militaristic composure, no forbidding perimeter. We’ll provide the community with clean power and quantities of potable water, also Internet connectivity, to aid the community with educational, healthcare, and cultural accessibility.

StarCore Nuclear, 377 de la Commune West, Montréal, Quebec, H2Y 2E2, Canada.